

# EAST Search History

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| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| S1    | 2    | "6505152".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/04/05 18:42 |
| S3    | 3991 | (formant resonance) and ((piecewise piece-wise "piece wise" linear) near7 approximat\$4)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/11 12:14 |
| S4    | 143  | (formant resonance resonant) and ((piecewise piece-wise "piece wise" linear) near7 approximat\$4) and "704"/\$.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/11 09:10 |
| S5    | 5    | S4 and kalman  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/11 09:05 |
| S6    | 8    | ((piecewise piece-wise "piece wise" linear) near7 approximat\$4) and kalman and "704"/\$.ccls.                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/11 13:07 |
| S7    | 447  | ((piecewise piece-wise "piece wise" linear) near7 approximat\$4) and kalman  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/11 09:12 |
| S8    | 381  | ((piecewise piece-wise "piece wise" linear) near7 approximat\$4) and kalman near filter\$4                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/04/11 09:12 |

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|-----|------|---|--|----|----|------------------|
| S9  | 12   | S8 and ((vocal near6 tract) ((speech voice) near6 formant))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 09:14 |
| S10 | 32   | (formant resonance vocal) and ((piecewise piece-wise "piece wise" ) near7 approximat\$4) and "704"/\$.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 12:24 |
| S11 | 62   | ((piecewise piece-wise "piece wise" ) near7 approximat\$4) and "704"/\$.ccls.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 14:47 |
| S12 | 276  | ((deng near3 li) (attias near3 hagai) (acero near3 alejandro) (lee near3 leo)).in.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 12:56 |
| S13 | 18   | S12 and (linear\$2 near3 approximat\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 12:56 |
| S14 | 8    | ((piecewise piece-wise "piece wise" linear) near7 approximat\$4) and 704/209.ccls.                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 13:07 |
| S15 | 2652 | (704/206-207 704/209 704/219).ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 13:07 |

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| S16 | 62  | ((piecewise piece-wise "piece wise" )<br>near7 approximat\$4) and "704"/\$.ccls.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 14:47 |
| S17 | 54  | S16 and (feature formant vocal tract)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 14:48 |
| S18 | 3   | S17 and (state near6 equation)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 14:49 |
| S19 | 15  | S17 and (linear near6 equation)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 14:49 |
| S20 | 13  | (linear\$2 near5 approximat\$4) same<br>(cosine sine) same (exponent<br>exponential)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 17:19 |
| S21 | 73  | (linear\$2 near5 approximat\$4) same<br>(cosine sine) and (exponent<br>exponential)          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 17:33 |
| S22 | 420 | "704"/\$.ccls. and (calculat\$4 equation)<br>near7 (cepstrum mfcc cepstral<br>mel-frequency) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 17:35 |

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| S23 | 77  | "704"/\$.ccls. and (calculat\$4 equation) near7 (mfcc mel-frequency mfccs)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 17:45 |
| S24 | 70  | "704"/\$.ccls. and (formula comput\$3) near7 (mfcc mel-frequency mfccs)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/11 18:01 |
| S25 | 36  | "704"/\$.ccls. and (formula comput\$3 calculat\$4 equation) near7 (mel-cepstrum mel-cepstra mel-cepstral)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/12 08:32 |
| S26 | 17  | "704"/\$.ccls. and (determin\$4) near7 (mel-cepstrum mel-cepstra mel-cepstral mfcc)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/12 13:53 |
| S27 | 510 | "704"/\$.ccls. and ((lpc near4 (cepstrum cepstra cepstral)) lpc-cepstra lpc-cepstral lpc-cepstrum)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/12 08:36 |
| S28 | 112 | "704"/\$.ccls. and ((lpc near4 (cepstrum cepstra cepstral)) lpc-cepstra lpc-cepstral lpc-cepstrum) near7 (equation calculat\$4 formula comput\$4 determin\$4) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/12 09:26 |